Section II-(A)-g

# Recreational Interpretations

#### General

The purpose of these interpretative ratings are to help engineers, planners, and others understand how soil properties influence behavior when used for recreational uses such as camp areas, picnic areas, playgrounds, and paths and trails. Soils are rated for the uses expected to be important or potentially important to users of soil survey information. Ratings for proposed uses are given in terms of limitations. Only the most restrictive features are listed. Other features may need to be treated to overcome soil limitations for a specific purpose.

Soils are rated in their "natural" state, that is, no unusual modification of the soil site or material is made other than that which is considered normal practice for the rated use. Even though soils may have limitations, it is important to remember that engineers and others can modify soil features or can design or adjust the plans for a recreational use to compensate for most degrees of limitations. Most of these practices are costly. The final decision in selecting a site for a particular use generally involves weighing the costs for site preparation and maintenance.

# **Limitation Ratings**

**SLIGHT** - is the rating given soils that have properties favorable for the use. The degree of limitation is minor and can be overcome easily. Good performance and low maintenance can be expected.

**MODERATE** - is the rating given soils that have properties moderately favorable for the use. This degree of limitation can be overcome or modified by special planning, design, or maintenance. During some part of the year, the expected performance is less desirable than for soils rated slight.

**SEVERE** - is the rating given soils that have one or more properties unfavorable for the rated use, such as steep slopes, bedrock near the surface, flooding, or a seasonal high water table. This degree of limitation generally requires major soil reclamation, special design, or intensive maintenance, which in most situations is difficult and costly.

Other important consideration for evaluating a site include:

- ✓ Location and accessibility of the area
- ✓ Size and shape of the area and its scenic quality
- ✓ The ability of the soil to support vegetation
- ✓ Access to water
- ✓ Potential water impoundment sites available
- ✓ Access to public sewer lines or capacity of the soil to absorb septic tank effluent.

#### Camp Areas

These are tracts of land used intensively as sites for tents, trailers, campers, and accompanying activities of outdoor living. Camp areas require such site preparation as shaping and leveling in areas for tents and parking areas, for stabilizing roads and intensively used areas, and for installing sanitary facilities and utility lines. Camp areas

are subject to heavy foot traffic and some vehicular traffic. The soils are rated on the basis of soil properties that influence the ease of developing camping area and the performance of the camping area after development. Soil properties that influence trafficability and promote the growth of vegetation after heavy use are also important.

#### Picnic Areas

Picnic areas are natural or landscaped tracts used primarily for preparing meals and eating outdoors. These areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking lots. Soils are rated on the basis of properties that influence development costs of shaping the site, trafficability, and growth of vegetation after development. The surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry.

# **Playgrounds**

These are areas used intensively for games such as baseball, football, and similar activities. Playgrounds require a nearly level soil that is free of stones and that can withstand heavy foot traffic and still maintain adequate vegetation. Soils are rated on the basis of properties that influence cost of shaping, trafficability, and growth of vegetation. Slope and stoniness are the main concerns in developing playgrounds. For good trafficability, the surface of playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry.

#### Paths and Trails

Paths and trails are used for walking, horseback riding, and similar uses, and should require little or no cutting and filling in site preparation. Soils are rated on properties that influence trafficability and erodibility. Paths and trails should remain firm under foot traffic and not be dusty when dry.

This subsection includes:

• Recreational Site Development

# Recreation Site Development

Map symbol and soil name	Camp areas 		   Picnic areas 		   Playgrounds 		Paths and trails	
	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value   
Ar:								
Arbela	Very limited   ~flooding   (very limited)   ~wetness   (very limited)   ~percs slowly   (slightly limited)	  1.00    1.00    0.13	  Very limited  ~wetness   (very limited)  ~percs slowly   (slightly limited)	  1.00    0.13	  Very limited  ~wetness   (very limited)  ~flooding   (moderately limited)  ~percs slowly   (slightly limited)	  1.00    0.60    0.13	  Very limited  ~wetness   (very limited)   	1.00
AtC:		! 						
Armstrong	Moderately limited  ~percs slowly   (moderately limited) 	  0.39       	Moderately limited  ~percs slowly   (moderately limited)   	  0.39         	Very limited  ~slope   (very limited)  ~percs slowly   (moderately limited)  ~small stones   (slightly limited)	  1.00    0.39    0.13	Not limited 	
AtD2:	İ	İ				İ		İ
Armstrong	Limited  ~slope   (limited)  ~percs slowly   (moderately limited)	  0.63    0.39 	Limited  ~slope   (limited)  ~percs slowly   (moderately limited) 	0.63	Very limited  ~slope   (very limited)  ~percs slowly   (moderately limited)  ~small stones   (slightly limited)	  1.00    0.39    0.13	Not limited   	

#### Recreation Site Development

Map symbol and soil name	Camp areas   		Picnic areas		Playgrounds		Paths and trails	S
	Rating class and limiting features	Value	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value
Au: Auxvasse	  Very limited  ~percs slowly   (very limited)  ~wetness   (limited)  ~flooding (rare)   (limited)	    1.00    0.96    0.90	Very limited	    1.00    0.60	Very limited	      1.00    0.96	  Limited  ~wetness   (limited) 	0.60
Bk: Blackoar	  Very limited  ~flooding   (very limited)  ~wetness   (limited)	    1.00    0.96	  Limited  ~wetness   (limited) 	      0.60   	  Limited  ~wetness   (limited)  ~flooding   (moderately limited)	      0.96    0.60	  Limited  ~wetness   (limited) 	    0.60   
Bp: Borrow pits	  Not rated 		  Not rated   	     	  Not rated   		  Not rated   	
CaB: Calwoods	  Very limited  ~percs slowly   (very limited)  ~wetness   (limited)	      1.00    0.96	 	    1.00    0.60	 	      1.00    0.96    0.40	 	0.60

# Recreation Site Development

Map symbol and soil name	Camp areas		   Picnic areas 		   Playgrounds 		   Paths and trails 	
	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value
Ch: Chariton	Limited  -wetness   (limited)  -flooding (rare)   (limited)  -percs slowly	    0.96    0.90 	Limited  -wetness   (limited)  -percs slowly   (moderately limited)	    0.60    0.39	Limited  -wetness   (limited)  -percs slowly   (moderately limited)	    0.96    0.39	  Limited  ~wetness   (limited) 	0.60
Cm: Chequest	(moderately limited)	0.39     1.00   1.00   0.60   0.50	   Moderately limited   ~too clayey   (moderately limited)   ~wetness   (slightly limited)   ~percs slowly   (slightly limited)	0.60	    Moderately limited  ~flooding  (moderately limited)  ~too clayey  (moderately limited)  ~wetness  (moderately limited)	      0.60    0.50	    Moderately limited  ~too clayey   (moderately limited)  ~wetness   (slightly limited) 	0.60
Cp: Clay pits	  Not rated   	       	  Not rated   	       	  Not rated   	       	  Not rated   	
Fa: Fatima	  Very limited  ~flooding   (very limited)	      1.00 	    Not limited     	         	    Moderately limited  ~flooding   (moderately limited) 	      0.60 	    Not limited     	

#### Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds 		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and	Value	Rating class and limiting features	Value
GaD:				İ		İ		İ
Gara	Limited  ~slope   (limited)  ~percs slowly   (slightly limited)	0.63	Limited  ~slope   (limited)  ~percs slowly   (slightly limited)	0.63	Very limited   -slope   (very limited)   -percs slowly   (slightly limited)   -small stones   (slightly limited)	  1.00    0.13    0.00	Not limited    -  -  -  -	
GaE:				ļ				
Gara	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited) 	1.00	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited) 	1.00	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)  ~small stones   (slightly limited)	  1.00    0.13    0.00	Slightly limited  ~slope   (slightly limited)   	  0.25     
GfB:					 			
Gifford	Very limited  ~percs slowly   (very limited)  ~wetness   (limited)  ~flooding (rare)   (limited)	  1.00    0.96    0.90	Very limited  ~percs slowly   (very limited)  ~wetness   (limited)	1.00	Very limited  ~percs slowly   (very limited)  ~wetness   (limited)  ~slope   (moderately limited)	1.00    0.96    0.40	Limited  ~wetness   (limited) 	  0.60     

# Recreation Site Development

Map symbol and soil name	Camp areas		   Picnic areas 		   Playgrounds 		Paths and trails	
	Rating class and limiting features	Value	Rating class and	Value   	Rating class and limiting features	Value	Rating class and limiting features	Value 
GfC: Gifford	  Very limited  ~percs slowly   (very limited)  ~wetness   (limited)  ~flooding (rare)   (limited)	    1.00    0.96    0.90	  Very limited  ~percs slowly   (very limited)  ~wetness   (limited)	    1.00    0.60	  Very limited  ~percs slowly   (very limited)  ~slope   (very limited)  ~wetness   (limited)	    1.00    1.00    0.96	Limited  -wetness   (limited) 	      0.60     
GoC2: Gorin	  Moderately limited  ~percs slowly   (moderately limited) 	      0.39   	  Moderately limited  ~percs slowly   (moderately limited) 	      0.39     	  Very limited  ~slope   (very limited)  ~percs slowly   (moderately limited)	      1.00    0.39	    Not limited       	
GpC: Gosport	  Very limited  ~percs slowly   (very limited)  ~too clayey   (moderately limited)  ~wetness   (moderately limited)	  1.00    0.60    0.35	Very limited  -percs slowly   (very limited)  -too clayey   (moderately limited)  -wetness   (slightly limited)	  1.00    0.60    0.13	Very limited  -percs slowly   (very limited)  -slope   (very limited)  -too clayey   (moderately limited)	  1.00    1.00    0.60	  Moderately limited  ~too clayey   (moderately limited)  ~wetness   (slightly limited) 	0.60

# Recreation Site Development

Map symbol and soil name	   Camp areas 		   Picnic areas 		   Playgrounds 		      Paths and trails 	
	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value   
GpD:		 				 		
Gosport	: =	  1.00    0.63    0.60	  Very limited  ~percs slowly   (very limited)  ~slope   (limited)  ~too clayey   (moderately limited)	  0.63    0.60	  Very limited  ~percs slowly   (very limited)  ~slope   (very limited)  ~too clayey   (moderately limited)	  1.00    0.60	  Very limited  ~erodes easily   (very limited)  ~too clayey   (moderately limited)  ~wetness   (slightly limited)	  1.00    0.60    0.13
CnE:		<u>.</u>		į		ļ		į
GpE: Gosport	  Very limited  ~percs slowly   (very limited)  ~slope   (very limited)  ~too clayey   (moderately limited)	  1.00    1.00    0.60	  Very limited  ~percs slowly   (very limited)  ~slope   (very limited)  ~too clayey   (moderately limited)	  1.00    0.60	  Very limited  ~percs slowly   (very limited)  ~slope   (very limited)  ~too clayey   (moderately limited)	1.00    1.00    0.60	  Very limited  ~erodes easily   (very limited)  ~too clayey   (moderately limited)  ~slope   (slightly limited)	  1.00    0.60    0.25
GsF: Goss	~slope   (very limited)	    1.00    0.27 	Very limited  ~slope   (very limited)  ~small stones   (slightly limited)	  1.00    0.27 	  Very limited  ~slope   (very limited)  ~small stones   (very limited)  ~large stones   (slightly limited)	  1.00    1.00    0.01	  Limited  ~slope   (limited)     	    0.92       

#### Recreation Site Development

Map symbol and soil name	Camp areas   		Picnic areas		Playgrounds 		Paths and trails	3
	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value   	Rating class and limiting features	Value
KeC2:		 				 		
Keswick	Moderately limited  ~percs slowly   (moderately limited)	  0.39     	Moderately limited  ~percs slowly   (moderately limited) 	  0.39     	  very limited  ~slope   (very limited)  ~percs slowly   (moderately limited)	  1.00    0.39	Not limited    -  -  -	
KeD2:		 				 		
Keswick	Limited  ~slope   (limited)  ~percs slowly   (moderately limited)	  0.63    0.39	Limited  ~slope   (limited)  ~percs slowly   (moderately limited)	  0.63    0.39	Very limited  ~slope   (very limited)  ~percs slowly   (moderately limited)	  1.00    0.39	Not limited 	
Kk: Kickapoo	  Very limited  ~flooding   (very limited)	      1.00 	  Not limited   	       	  Moderately limited  ~flooding   (moderately limited)	      0.60 	  Not limited 	
KlB:								
Kilwinning	Very limited  ~percs slowly   (very limited)  ~wetness   (limited) 	  1.00    0.75   	Very limited  ~percs slowly   (very limited)  ~wetness   (moderately limited) 	  1.00    0.45   	Very limited  ~percs slowly   (very limited)  ~wetness   (limited)  ~slope   (moderately limited)	  1.00    0.75    0.40	Moderately limited  ~wetness   (moderately limited)     	0.45

# Recreation Site Development

Map symbol and soil name	   Camp areas 		 		   Playgrounds 		   Paths and trails 	5
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value   
LcC2:		 						
Leonard	Very limited  ~wetness   (very limited)  ~percs slowly   (moderately limited)	  1.00    0.39 	Limited  ~wetness   (limited)  ~percs slowly   (moderately limited)	  0.99    0.39 	Very limited   ~slope   (very limited)   ~wetness   (very limited)   ~percs slowly   (moderately limited)	  1.00    1.00    0.39	Limited  ~wetness   (limited) 	0.99
LcD2:		 						
Leonard	Very limited  ~wetness   (very limited)  ~slope   (limited)  ~percs slowly   (moderately limited)		Limited  ~wetness   (limited)  ~slope   (limited)  ~percs slowly   (moderately limited)	0.99	Very limited  ~slope   (very limited)  ~wetness   (very limited)  ~percs slowly   (moderately limited)	  1.00    1.00    0.39	Very limited  ~erodes easily   (very limited)  ~wetness   (limited) 	1.00
LdE:								
Lindley	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	1.00 	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	  1.00    0.13	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	  1.00    0.13	Slightly limited  ~slope   (slightly limited) 	0.25
LdF:		 						
Lindley	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	İ	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	j	Very limited  ~slope   (very limited)  ~percs slowly   (slightly limited)	  1.00    0.13	Limited  ~slope   (limited) 	0.92

# Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	
	Rating class and limiting features	Value	Rating class and limiting features	Value     	Rating class and limiting features	Value     	Rating class and limiting features	Value
MaA:				   	 	   		
Marion	Very limited  ~percs slowly   (very limited)  ~wetness   (limited)	  1.00    0.75	Very limited  ~percs slowly   (very limited)  ~wetness   (moderately limited)	  1.00    0.45 	  very limited   very limited   very limited   vetness   (limited)	  1.00    0.75 	Moderately limited  ~wetness   (moderately limited) 	  0.45     
MaB: Marion	  Very limited  ~percs slowly   (very limited)  ~wetness   (limited)	  1.00    0.75	  Very limited  ~percs slowly   (very limited)  ~wetness   (moderately limited)	0.45	  Very limited  ~percs slowly   (very limited)  ~wetness   (limited)  ~slope   (moderately limited)	  1.00    0.75    0.40	  Moderately limited  ~wetness   (moderately limited) 	0.45
MeB: Mexico	  Very limited  ~percs slowly   (very limited)	1.00	  Very limited  ~percs slowly   (very limited)	    1.00   	  Very limited  ~percs slowly   (very limited)  ~slope   (moderately limited)	    1.00    0.40	  Not limited 	
MeB2: Mexico	  Very limited  ~percs slowly   (very limited)	1.00	  Very limited  ~percs slowly   (very limited) 	      1.00   	  Very limited  ~percs slowly   (very limited)  ~slope   (moderately limited)	      1.00    0.40	  Not limited       	           

# Recreation Site Development

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds		Paths and trails	1
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mo:						<u> </u> 		
Moniteau	Very limited  ~flooding   (very limited)  ~wetness   (moderately limited)  ~percs slowly   (slightly limited)	  1.00    0.50    0.13	Moderately limited  ~flooding   (moderately limited)  ~wetness   (slightly limited)  ~percs slowly   (slightly limited)	  0.60    0.28    0.13	Very limited  ~flooding   (very limited)  ~wetness   (moderately limited)  ~percs slowly   (slightly limited)	  1.00    0.50    0.13	Moderately limited  ~flooding   (moderately limited)  ~wetness   (slightly limited)	  0.60    0.28 
Po: Piopolis	  Very limited  ~flooding  (very limited)  ~too clayey  (moderately limited)  ~wetness  (moderately limited)	  1.00    0.60    0.50	  Moderately limited  ~too clayey   (moderately limited)  ~percs slowly   (moderately limited)  ~wetness   (slightly limited)	0.60	  Moderately limited  ~flooding   (moderately limited)  ~too clayey   (moderately limited)  ~wetness   (moderately limited)	    0.60    0.60    0.50	  Moderately limited  ~too clayey   (moderately limited)  ~wetness   (slightly limited) 	0.60
Pu: Putnam	  Very limited  ~percs slowly   (very limited)  ~wetness   (limited)	    1.00    0.96	  Very limited  ~percs slowly   (very limited)  ~wetness   (limited)	  1.00    0.60	Very limited	    1.00    0.96	  Limited  ~wetness   (limited)	0.60
Qu: Rock quarry	  Not rated   	         	  Not rated     	       	  Not rated     	         	  Not rated     	

# Recreation Site Development

Map symbol and soil name	   Camp areas 		   Picnic areas 		   Playgrounds 		   Paths and trails 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Rk: Rock land	    Not rated 		    Not rated 		    Not rated 		    Not rated 	
Sm: Strip mine	    Not rated 	     	    Not rated 	     	    Not rated 	     	    Not rated 	
VgB: Vigar	  Slightly limited  ~percs slowly   (slightly limited) 	    0.13   	    Slightly limited  ~percs slowly   (slightly limited) 	0.13	  Moderately limited  ~slope   (moderately limited)  ~percs slowly   (slightly limited)	    0.40    0.13	    Not limited     	
W: Water	    Not rated   		    Not rated   		    Not rated   		    Not rated   	
Wa: Wabash	  Very limited  ~flooding   (very limited)  ~percs slowly   (very limited)  ~wetness   (very limited)	İ	  Very limited  ~percs slowly   (very limited)  ~too clayey   (very limited)  ~wetness   (limited)	j	  Very limited  ~percs slowly   (very limited)  ~wetness   (very limited)  ~too clayey   (very limited)	İ	  Very limited  ~too clayey   (very limited)  ~wetness   (limited) 	1.00